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1 Machine learning in automated text categorization
 Fabrizio Sebastiani

 March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Publisher: ACM Press

 Full text available:  [pdf\(524.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

2 Building task-specific interfaces to high volume conversational data
 Loren G. Terveen, William C. Hill, Brian Amento, David McDonald, Josh Creter

 March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press

 Full text available:  [pdf\(908.00 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
Keywords: Netnews, Usenet, World Wide Web, collaborative filtering, computer-supported cooperative work, data mining, human interface, human-computer interaction, organizational computing, resource discovery, social filtering

3 WSQ/DSQ: a practical approach for combined querying of databases and the Web
 Roy Goldman, Jennifer Widom

 May 2000 **ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

Publisher: ACM Press

 Full text available:  [pdf\(223.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present WSQ/DSQ (pronounced "wisk-disk"), a new approach for combining the query facilities of traditional databases with existing search engines on the Web. WSQ, for *Web-Supported (Database) Queries*, leverages results from Web searches to enhance SQL queries over a relational database. DSQ, for *Database-Supported (Web) Queries*, uses information stored in the database to enhance and explain Web searches. This paper focuses primarily on WSQ, describing a simple, lo ...

4 [Fast detection of communication patterns in distributed executions](#)



Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 [A method of geographical name extraction from Japanese text for thematic](#)



[geographical search](#)

Yasusi Kanada

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A text retrieval method called the thematic geographical search method has been developed and applied to a Japanese encyclopedia called the World Encyclopædia. In this method, the user specifies a search theme using free words, then obtains a sorted list of excerpts and hyperlinks to encyclopedia sentences that contain geographical names.

Using this list, the user can also open maps that indicate the locations of the names. To generate an index of names for this searching, a method of ...

6 [Web-based personalization and management of interactive video](#)



[Rune Hjelsvold, Subu Vdaygiri, Yves Léauté](#)

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press

Full text available: [pdf\(611.20 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: J2EE, SMIL, dynamic content generation, interactive video, media asset management, micro-payment, video personalization

7 [Model-driven development of Web applications: the AutoWeb system](#)



[Piero Fraternali, Paolo Paolini](#)

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.94 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

8 [Computing curricula 2001](#)



[September 2001 Journal on Educational Resources in Computing \(JERIC\)](#)

Publisher: ACM Press

Full text available: [pdf\(613.63 KB\)](#) Additional Information:

9 [Impact of software engineering research on the practice of software configuration management](#) 

Jacky Estublier, David Leblang, André van der Hoek, Reidar Conradi, Geoffrey Clemm, Walter Tichy, Darcy Wiborg-Weber
October 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 14 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(350.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Software Configuration Management (SCM) is an important discipline in professional software development and maintenance. The importance of SCM has increased as programs have become larger, more long lasting, and more mission and life critical. This article discusses the evolution of SCM technology from the early days of software development to the present, with a particular emphasis on the impact that university and industrial research has had along the way. Based on an analysis of the publicati ...

Keywords: Versioning, data model, process support, research impact, software configuration management, software engineering, workspace management

10 [Information retrieval on the web](#) 

Mei Kobayashi, Koichi Takeda
June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(213.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

11 [A multi-paradigm querying approach for a generic multimedia database management system](#) 

Ji-Rong Wen, Qing Li, Wei-Ying Ma, Hong-Jiang Zhang
March 2003 **ACM SIGMOD Record**, Volume 32 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(524.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

To truly meet the requirements of multimedia database (MMDB) management, an integrated framework for modeling, managing and retrieving various kinds of media data in a uniform way is necessary. MediaLand is an experimental MMDB platform being developed at *Microsoft Research Asia* for users with different levels of experiences and expertise to manage and search multimedia repositories easily, efficiently, and cooperatively. Key features of MediaLand include a uniform data model for describi ...

Keywords: media independence, multi-paradigm querying, multimedia database management, uniform data modeling

12 [Axis-specified search: a fine-grained full-text search method for gathering and structuring excerpts](#) 

Yasusi Kanada

May 1998 **Proceedings of the third ACM conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(1.35 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 [Enhanced hypertext categorization using hyperlinks](#)



 Soumen Chakrabarti, Byron Dom, Piotr Indyk

June 1998 **ACM SIGMOD Record**, **Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.91 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A major challenge in indexing unstructured hypertext databases is to automatically extract meta-data that enables structured search using topic taxonomies, circumvents keyword ambiguity, and improves the quality of search and profile-based routing and filtering. Therefore, an accurate classifier is an essential component of a hypertext database. Hyperlinks pose new problems not addressed in the extensive text classification literature. Links clearly contain high-quality semantic clues that ...

14 [NSF workshop on industrial/academic cooperation in database systems](#)



 Mike Carey, Len Seligman

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.96 MB)

Additional Information: [full citation](#), [index terms](#)

15 [Pen computing: a technology overview and a vision](#)



 André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available:  pdf(5.14 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

16 [Columns: Risks to the public in computers and related systems](#)



 Peter G. Neumann

January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1

Publisher: ACM Press

Full text available:  pdf(3.24 MB)

Additional Information: [full citation](#)

17 [A tour through Tapestry](#)



 Douglas B. Terry

December 1993 **Proceedings of the conference on Organizational computing systems**

Publisher: ACM Press

Full text available:  pdf(989.92 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: appraisers, collaborative filtering, electronic mail, highlighting, information filtering, personalized information delivery

18 [Clustering categorical data: an approach based on dynamical systems](#)



David Gibson, Jon Kleinberg, Prabhakar Raghavan

We describe a novel approach for clustering collections of sets, and its application to the analysis and mining of categorical data. By "categorical data," we mean tables with fields that cannot be naturally ordered by a metric – e.g., the names of producers of automobiles, or the names of products offered by a manufacturer. Our approach is based on an iterative method for assigning and propagating weights on the categorical values in a table; this facilitates a type of similar ...

Keywords: Categorical data, Clustering, Data mining, Dynamical systems, Hypergraphs

19 Mining and disambiguating names: Finding authoritative people from the web 

 Masanori Harada, Shin-ya Sato, Kazuhiro Kazama

June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available:  [pdf\(260.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today's web is so huge and diverse that it arguably reflects the real world. For this reason, searching the web is a promising approach to find things in the real world. This paper presents NEXAS, an extension to web search engines that attempts to find real-world entities relevant to a topic. Its basic idea is to extract proper names from the web pages retrieved for the topic. A main advantage of this approach is that users can query any topic and learn about relevant real-world entities without ...

Keywords: proper name extraction, question answering, text analysis, web mining

20 Concept mapping vs. web page hyperlinks as an information retrieval interface: preferences of postgraduate culturally diverse learners 

Melius Weideman, Wouter Kritzinger

September 2003 **Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology SAICSIT '03**

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available:  [pdf\(328.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The principal objective of this research project was to determine if and to what extent cultural factors prescribe interface choices by learners. Concept mapping and standard hyperlinks were offered as choices for information retrieval interfaces. The methods employed were to identify a set of culturally divisive factors, and then to test two different interfaces with a group of culturally diverse, advanced learners. Some of the results had to be ignored due to small sample sizes. The remaining ...

Keywords: concept mapping, cultural diversity, experimentation, higher education, human factors, hyperlinks, information retrieval, measurement

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